

REMARKS

Reconsideration of this application is respectfully requested in view of the foregoing amendment and the following remarks.

Claims 1-6 were pending in this application. Independent claims 1 and 6 have been amended. Therefore, claims 1-6 will be pending in this application upon entry of this Amendment.

In the Office Action mailed July 29, 2004, claims 1-6 were rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,721,581 to Subramanian (“Subramanian”). Applicants understand that the cited patent is prior art as to the instant application only under 35 U.S.C. §102(e). Notwithstanding, to the extent this rejection might still be applied to claims presently pending in this application, it is respectfully traversed.

Amended claim 1 recites an upgradeable and extendable wireless communication system comprising a plurality of layers, each of the layers comprising a plurality of configurable computational units, a plurality of data flow components, and a plurality of control flow components. In the system of amended claim 1, at least one of the plurality of configurable computational units is dynamically selected based on a wireless communication standard to configure various hardware for dedicated functions and at least a first one of the plurality of data flow components interconnecting each of the computation units and at least a second one of the plurality of data flow components interconnecting each of the plurality of layers.

Subramanian describes a digital wireless communication device that provides the ability to use software programming techniques to reduce product development time and achieve rapid

and comprehensive product customization. Subramanian, however, only describes a single layer of communication system. Further, according to col. 10, lines 32 to 40, Subramanian mentions “the architecture of the invention optimally combines fixed-function and reconfigurable logic resources.” Although Subramanian provides a more flexible structure in comparison with the conventional art, Subramanian does not have the flexibility of the system of the present invention in which “at least one of the plurality of configurable computational units is dynamically selected based on a wireless communication standard to configure various hardware for dedicated functions” and “at least a first one of the plurality of data flow components interconnecting each of the computation units and at least a second one of the plurality of data flow components interconnecting each of the plurality of layers,” as recited in amended claim 1. Subramanian further fails to teach or suggest a method that comprises at least “compiling software stored in a software library that is associated with the identified application, standard or service and storing complied software in a host memory,” and “determining the utilization of hardware resources based on the complied software, the hardware resources being located at different layers of an updateable and extendable communication system and being chosen to form an event-driven hardware,” as recited in amended claim 6.

Accordingly, claims 1-6 should be patentable over Subramanian at least based on the above reasons.

In view of the foregoing all of the claims in this case are believed to be in condition for allowance. Should the Examiner have any questions or determine that any further action is desirable to place this application in even better condition for issue, the Examiner is encouraged to telephone applicants' undersigned representative at the number listed below.

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Respectfully submitted,

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